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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,262	07/14/2003	Bowie G. Keefer	6454-66361-01	8753
24197	7590	01/17/2006	EXAMINER	
KLARQUIST SPARKMAN, LLP			SPITZER, ROBERT H	
121 SW SALMON STREET			ART UNIT	PAPER NUMBER
SUITE 1600			1724	
PORTLAND, OR 97204				

DATE MAILED: 01/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/620,262	KEEFER ET AL.
	Examiner Robert H. Spitzer	Art Unit 1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 06 July 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-33 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-33 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 14 July 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 12/01/2003.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

1. The abstract of the disclosure is objected to because of the use of the legal phraseology of "said". Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 is indefinite because in lines 12 and 13, there is no direct antecedent basis for the recitation of "the function ports", as the previous recitation is to "a plurality of first function compartments" and "a plurality of second function compartments". Thus, it appears that "ports" should be "compartments". Claim 4 is indefinite because it recites "each flow path includes an adsorber comprising at least one adsorbent sheet", without any correlation to "a plurality of flow paths for receiving adsorbent material therein", which is already recited in claim 1. Claim 2 is

indefinite for the same reason as claim 1, and also because line 16 recites "a flow path" without any correlation/distinction to either "a plurality of flow paths" or "said flow path", both previously recited. Claim 10 is indefinite for the same reason as claim 4, but with respect to claim 2. Claim 18 is indefinite for the same reason as claim 1. Claim 29 is indefinite for the same reason as claim 2, but with respect to claim 18. The remaining claims are indefinite because they depend from the above indefinite claims.

4. Claims 1-33 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
5. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims define allowable subject matter, as none show either a mixing means in communication with at least two function ports for mixing higher and lower pressure gas streams while providing a source of reduced pressure, or a gas expander for pressure letdown of gas released from or supplied to a flow path with recovery of mechanical power from such pressure letdown.
6. Applicants' response to this Office action must also include the following editorial changes: on Figs 19 and 21, provide a description of number "6081"; page 3, line 14, "to" should be inserted before "provide"; page 4, line 23, "that" should be "than"; page 6, line 27, "reduce" should be "reduced"; page 8, line 24, "configurations" should be "configuration"; page 16, line 6, a ")" should be inserted after "crystallites"; page 16, line 18, "feed" should be "fed"; page 20, line 3, "170-176" should be "170,172,174 and 176"; page 20, line 4, "181-184" should be "181,183 and 184"; page 20, line 21, "crease" should be "decrease"; page 27, line 6, "first" should be "second"; page 33, line 3, "17"

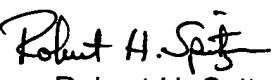
should be "18"; page 34, line 16, "17_above" should be "18 above"; page 36, line 4, "219" should be "23"; page 36, line 7, "408" should be "608"; page 47, line 5, "nitroogen-enriched" should be "nitrogen-enriched"; and, page 47, line 8, "heagy" should be "heavy".

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Spitzer whose telephone number is (571) 272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 20, 2005


Robert H. Spitzer
Primary Examiner
Art Unit 1724

